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# H. R. 1702

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IN THE SENATE OF THE UNITED STATES

NOVEMBER 5, 1997

Received; read twice and referred to the Committee on Commerce, Science,  
and Transportation

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## AN ACT

To encourage the development of a commercial space  
industry in the United States, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

2 (a) SHORT TITLE.—This Act may be cited as the  
3 “Commercial Space Act of 1997”.

4 (b) TABLE OF CONTENTS.—

Sec. 1. Short title; table of contents.

Sec. 2. Definitions.

TITLE I—PROMOTION OF COMMERCIAL SPACE OPPORTUNITIES

Sec. 101. Commercialization of space station.

Sec. 102. Commercial space launch amendments.

Sec. 103. Launch voucher demonstration program.

Sec. 104. Promotion of United States Global Positioning System standards.

Sec. 105. Acquisition of space science data.

Sec. 106. Administration of Commercial Space Centers.

TITLE II—REMOTE SENSING

Sec. 201. Land Remote Sensing Policy Act of 1992 amendments.

Sec. 202. Acquisition of earth science data.

TITLE III—FEDERAL ACQUISITION OF SPACE TRANSPORTATION  
SERVICES

Sec. 301. Requirement to procure commercial space transportation services.

Sec. 302. Acquisition of commercial space transportation services.

Sec. 303. Launch Services Purchase Act of 1990 amendments.

Sec. 304. Shuttle privatization.

5 **SEC. 2. DEFINITIONS.**

6 For purposes of this Act—

7 (1) the term “Administrator” means the Ad-  
8 ministrator of the National Aeronautics and Space  
9 Administration;

10 (2) the term “commercial provider” means any  
11 person providing space transportation services or  
12 other space-related activities, primary control of  
13 which is held by persons other than Federal, State,  
14 local, and foreign governments;

1           (3) the term “payload” means anything that a  
2           person undertakes to transport to, from, or within  
3           outer space, or in suborbital trajectory, by means of  
4           a space transportation vehicle, but does not include  
5           the space transportation vehicle itself except for its  
6           components which are specifically designed or adapt-  
7           ed for that payload;

8           (4) the term “space-related activities” includes  
9           research and development, manufacturing, process-  
10          ing, service, and other associated and support activi-  
11          ties;

12          (5) the term “space transportation services”  
13          means the preparation of a space transportation ve-  
14          hicle and its payloads for transportation to, from, or  
15          within outer space, or in suborbital trajectory, and  
16          the conduct of transporting a payload to, from, or  
17          within outer space, or in suborbital trajectory;

18          (6) the term “space transportation vehicle”  
19          means any vehicle constructed for the purpose of op-  
20          erating in, or transporting a payload to, from, or  
21          within, outer space, or in suborbital trajectory, and  
22          includes any component of such vehicle not specifi-  
23          cally designed or adapted for a payload;

24          (7) the term “State” means each of the several  
25          States of the Union, the District of Columbia, the

1 Commonwealth of Puerto Rico, the Virgin Islands,  
2 Guam, American Samoa, the Commonwealth of the  
3 Northern Mariana Islands, and any other common-  
4 wealth, territory, or possession of the United States;  
5 and

6 (8) the term “United States commercial pro-  
7 vider” means a commercial provider, organized  
8 under the laws of the United States or of a State,  
9 which is—

10 (A) more than 50 percent owned by United  
11 States nationals; or

12 (B) a subsidiary of a foreign company and  
13 the Secretary of Transportation finds that—

14 (i) such subsidiary has in the past evi-  
15 denced a substantial commitment to the  
16 United States market through—

17 (I) investments in the United  
18 States in long-term research, develop-  
19 ment, and manufacturing (including  
20 the manufacture of major components  
21 and subassemblies); and

22 (II) significant contributions to  
23 employment in the United States; and

24 (ii) the country or countries in which  
25 such foreign company is incorporated or

1 organized, and, if appropriate, in which it  
2 principally conducts its business, affords  
3 reciprocal treatment to companies de-  
4 scribed in subparagraph (A) comparable to  
5 that afforded to such foreign company's  
6 subsidiary in the United States, as evi-  
7 denced by—

8 (I) providing comparable oppor-  
9 tunities for companies described in  
10 subparagraph (A) to participate in  
11 Government sponsored research and  
12 development similar to that authorized  
13 under this Act;

14 (II) providing no barriers, to  
15 companies described in subparagraph  
16 (A) with respect to local investment  
17 opportunities, that are not provided to  
18 foreign companies in the United  
19 States; and

20 (III) providing adequate and ef-  
21 fective protection for the intellectual  
22 property rights of companies de-  
23 scribed in subparagraph (A).

1 **TITLE I—PROMOTION OF COM-**  
2 **MERCIAL SPACE OPPORTUNI-**  
3 **TIES**

4 **SEC. 101. COMMERCIALIZATION OF SPACE STATION.**

5 (a) POLICY.—The Congress declares that a priority  
6 goal of constructing the International Space Station is the  
7 economic development of Earth orbital space. The Con-  
8 gress further declares that free and competitive markets  
9 create the most efficient conditions for promoting eco-  
10 nomic development, and should therefore govern the eco-  
11 nomic development of Earth orbital space. The Congress  
12 further declares that the use of free market principles in  
13 operating, servicing, allocating the use of, and adding ca-  
14 pabilities to the Space Station, and the resulting fullest  
15 possible engagement of commercial providers and partici-  
16 pation of commercial users, will reduce Space Station  
17 operational costs for all partners and the Federal Govern-  
18 ment’s share of the United States burden to fund oper-  
19 ations.

20 (b) REPORTS.—(1) The Administrator shall deliver to  
21 the Committee on Science of the House of Representatives  
22 and the Committee on Commerce, Science, and Transpor-  
23 tation of the Senate, within 90 days after the date of the  
24 enactment of this Act, a study that identifies and exam-  
25 ines—

1           (A) the opportunities for commercial providers  
2           to play a role in International Space Station activi-  
3           ties, including operation, use, servicing, and aug-  
4           mentation;

5           (B) the potential cost savings to be derived  
6           from commercial providers playing a role in each of  
7           these activities;

8           (C) which of the opportunities described in sub-  
9           paragraph (A) the Administrator plans to make  
10          available to commercial providers in fiscal year 1998  
11          and 1999;

12          (D) the specific policies and initiatives the Ad-  
13          ministrator is advancing to encourage and facilitate  
14          these commercial opportunities; and

15          (E) the revenues and cost reimbursements to  
16          the Federal Government from commercial users of  
17          the Space Station.

18        (2) The Administrator shall deliver to the Committee  
19        on Science of the House of Representatives and the Com-  
20        mittee on Commerce, Science, and Transportation of the  
21        Senate, within 180 days after the date of the enactment  
22        of this Act, an independently-conducted market study that  
23        examines and evaluates potential industry interest in pro-  
24        viding commercial goods and services for the operation,  
25        servicing, and augmentation of the International Space

1 Station, and in the commercial use of the International  
2 Space Station. This study shall also include updates to  
3 the cost savings and revenue estimates made in the study  
4 described in paragraph (1) based on the external market  
5 assessment.

6 (3) The Administrator shall deliver to the Congress,  
7 no later than the submission of the President's annual  
8 budget request for fiscal year 1999, a report detailing how  
9 many proposals (whether solicited or not) the National  
10 Aeronautics and Space Administration received during  
11 calendar year 1997 regarding commercial operation, serv-  
12 icing, utilization, or augmentation of the International  
13 Space Station, broken down by each of these four cat-  
14 egories, and specifying how many agreements the National  
15 Aeronautics and Space Administration has entered into in  
16 response to these proposals, also broken down by these  
17 four categories.

18 (4) Each of the studies and reports required by para-  
19 graphs (1), (2), and (3) shall include consideration of the  
20 potential role of State governments as brokers in promot-  
21 ing commercial participation in the International Space  
22 Station program.

23 **SEC. 102. COMMERCIAL SPACE LAUNCH AMENDMENTS.**

24 (a) AMENDMENTS.—Chapter 701 of title 49, United  
25 States Code, is amended—



1 (1) in the table of sections—

2 (A) by amending the item relating to sec-  
3 tion 70104 to read as follows:

“70104. Restrictions on launches, operations, and reentries.”;

4 (B) by amending the item relating to sec-  
5 tion 70108 to read as follows:

“70108. Prohibition, suspension, and end of launches, operation of launch sites  
and reentry sites, and reentries.”;

6 (C) by amending the item relating to sec-  
7 tion 70109 to read as follows:

“70109. Preemption of scheduled launches or reentries.”;

8 and

9 (D) by adding at the end the following new  
10 items:

“70120. Regulations.

“70121. Report to Congress.”.

11 (2) in section 70101—

12 (A) by inserting “microgravity research,”  
13 after “information services,” in subsection  
14 (a)(3);

15 (B) by inserting “, reentry,” after “launch-  
16 ing” both places it appears in subsection (a)(4);

17 (C) by inserting “, reentry vehicles,” after  
18 “launch vehicles” in subsection (a)(5);

19 (D) by inserting “and reentry services”  
20 after “launch services” in subsection (a)(6);

1 (E) by inserting “, reentries,” after  
2 “launches” both places it appears in subsection  
3 (a)(7);

4 (F) by inserting “, reentry sites,” after  
5 “launch sites” in subsection (a)(8);

6 (G) by inserting “and reentry services”  
7 after “launch services” in subsection (a)(8);

8 (H) by inserting “reentry sites,” after  
9 “launch sites,” in subsection (a)(9);

10 (I) by inserting “and reentry site” after  
11 “launch site” in subsection (a)(9);

12 (J) by inserting “, reentry vehicles,” after  
13 “launch vehicles” in subsection (b)(2);

14 (K) by striking “launch” in subsection  
15 (b)(2)(A);

16 (L) by inserting “and reentry” after “con-  
17 duct of commercial launch” in subsection  
18 (b)(3);

19 (M) by striking “launch” after “and trans-  
20 fer commercial” in subsection (b)(3); and

21 (N) by inserting “and development of re-  
22 entry sites,” after “launch-site support facili-  
23 ties,” in subsection (b)(4);

24 (3) in section 70102—

25 (A) in paragraph (3)—

1 (i) by striking “and any payload” and  
2 inserting in lieu thereof “or reentry vehicle  
3 and any payload from Earth”;

4 (ii) by striking the period at the end  
5 of subparagraph (C) and inserting in lieu  
6 thereof a comma; and

7 (iii) by adding after subparagraph (C)  
8 the following:

9 “including activities involved in the preparation of a  
10 launch vehicle or payload for launch, when those ac-  
11 tivities take place at a launch site in the United  
12 States.”;

13 (B) in paragraph (5)—

14 (i) by redesignating subparagraphs  
15 (A) and (B) as subparagraphs (B) and  
16 (C), respectively; and

17 (ii) by inserting before subparagraph  
18 (B), as so redesignated by clause (i) of this  
19 subparagraph, the following new subpara-  
20 graph:

21 “(A) activities directly related to the prep-  
22 aration of a launch site or payload facility for  
23 one or more launches;”;

24 (C) by inserting “or reentry vehicle” after  
25 “means of a launch vehicle” in paragraph (8);

1 (D) by redesignating paragraphs (10),  
2 (11), and (12) as paragraphs (14), (15), and  
3 (16), respectively;

4 (E) by inserting after paragraph (9) the  
5 following new paragraphs:

6 “(10) ‘reenter’ and ‘reentry’ mean to return or  
7 attempt to return, purposefully, a reentry vehicle  
8 and its payload, if any, from Earth orbit or from  
9 outer space to Earth.

10 “(11) ‘reentry services’ means—

11 “(A) activities involved in the preparation  
12 of a reentry vehicle and its payload, if any, for  
13 reentry; and

14 “(B) the conduct of a reentry.

15 “(12) ‘reentry site’ means the location on Earth  
16 to which a reentry vehicle is intended to return (as  
17 defined in a license the Secretary issues or transfers  
18 under this chapter).

19 “(13) ‘reentry vehicle’ means a vehicle designed  
20 to return from Earth orbit or outer space to Earth,  
21 or a reusable launch vehicle designed to return from  
22 outer space to Earth, substantially intact.”; and

23 (F) by inserting “or reentry services” after  
24 “launch services” each place it appears in para-

1 graph (15), as so redesignated by subparagraph  
2 (D) of this paragraph;  
3 (4) in section 70103(b)—

4 (A) by inserting “AND REENTRIES” after  
5 “LAUNCHES” in the subsection heading;

6 (B) by inserting “and reentries” after  
7 “commercial space launches” in paragraph (1);  
8 and

9 (C) by inserting “and reentry” after  
10 “space launch” in paragraph (2);  
11 (5) in section 70104—

12 (A) by amending the section designation  
13 and heading to read as follows:

14 **“§ 70104. Restrictions on launches, operations, and**  
15 **reentries”;**

16 (B) by inserting “or reentry site, or to re-  
17 enter a reentry vehicle,” after “operate a  
18 launch site” each place it appears in subsection  
19 (a);

20 (C) by inserting “or reentry” after “launch  
21 or operation” in subsection (a)(3) and (4);

22 (D) in subsection (b)—

23 (i) by striking “launch license” and  
24 inserting in lieu thereof “license”;

1 (ii) by inserting “or reenter” after  
2 “may launch”; and

3 (iii) by inserting “or reentering” after  
4 “related to launching”; and  
5 (E) in subsection (c)—

6 (i) by amending the subsection head-  
7 ing to read as follows: “PREVENTING  
8 LAUNCHES AND REENTRIES.—”;

9 (ii) by inserting “or reentry” after  
10 “prevent the launch”; and

11 (iii) by inserting “or reentry” after  
12 “decides the launch”;

13 (6) in section 70105—

14 (A) by inserting “(1)” before “A person  
15 may apply” in subsection (a);

16 (B) by striking “receiving an application”  
17 both places it appears in subsection (a) and in-  
18 serting in lieu thereof “accepting an application  
19 in accordance with criteria established pursuant  
20 to subsection (b)(2)(D)”;

21 (C) by adding at the end of subsection (a)  
22 the following: “The Secretary shall transmit to  
23 the Committee on Science of the House of Rep-  
24 resentatives and the Committee on Commerce,  
25 Science, and Transportation of the Senate a

1           written notice not later than 30 days after any  
2           occurrence when a license is not issued within  
3           the deadline established by this subsection.

4           “(2) In carrying out paragraph (1), the Secretary  
5   may establish procedures for safety approvals of launch  
6   vehicles, reentry vehicles, safety systems, processes, serv-  
7   ices, or personnel that may be used in conducting licensed  
8   commercial space launch or reentry activities.”;

9           (D) by inserting “or a reentry site, or the  
10          reentry of a reentry vehicle,” after “operation  
11          of a launch site” in subsection (b)(1);

12          (E) by striking “or operation” and insert-  
13          ing in lieu thereof “, operation, or reentry” in  
14          subsection (b)(2)(A);

15          (F) by striking “and” at the end of sub-  
16          section (b)(2)(B);

17          (G) by striking the period at the end of  
18          subsection (b)(2)(C) and inserting in lieu there-  
19          of “; and”;

20          (H) by adding at the end of subsection  
21          (b)(2) the following new subparagraph:

22          “(D) regulations establishing criteria for ac-  
23          cepting or rejecting an application for a license  
24          under this chapter within 60 days after receipt of  
25          such application.”; and

1 (I) by inserting “, including the require-  
 2 ment to obtain a license,” after “waive a re-  
 3 quirement” in subsection (b)(3);  
 4 (7) in section 70106(a)—

5 (A) by inserting “or reentry site” after  
 6 “observer at a launch site”;

7 (B) by inserting “or reentry vehicle” after  
 8 “assemble a launch vehicle”; and

9 (C) by inserting “or reentry vehicle” after  
 10 “with a launch vehicle”;  
 11 (8) in section 70108—

12 (A) by amending the section designation  
 13 and heading to read as follows:

14 **“§ 70108. Prohibition, suspension, and end of**  
 15 **launches, operation of launch sites and**  
 16 **reentry sites, and reentries”;**

17 and

18 (B) in subsection (a)—

19 (i) by inserting “or reentry site, or re-  
 20 entry of a reentry vehicle,” after “oper-  
 21 ation of a launch site”; and

22 (ii) by inserting “or reentry” after  
 23 “launch or operation”;

24 (9) in section 70109—



1 (A) by amending the section designation  
2 and heading to read as follows:

3 **“§ 70109. Preemption of scheduled launches or reen-**  
4 **tries”;**

5 (B) in subsection (a)—

6 (i) by inserting “or reentry” after  
7 “ensure that a launch”;

8 (ii) by inserting “, reentry site,” after  
9 “United States Government launch site”;

10 (iii) by inserting “or reentry date  
11 commitment” after “launch date commit-  
12 ment”;

13 (iv) by inserting “or reentry” after  
14 “obtained for a launch”;

15 (v) by inserting “, reentry site,” after  
16 “access to a launch site”;

17 (vi) by inserting “, or services related  
18 to a reentry,” after “amount for launch  
19 services”; and

20 (vii) by inserting “or reentry” after  
21 “the scheduled launch”; and

22 (C) in subsection (c), by inserting “or re-  
23 entry” after “prompt launching”;

24 (10) in section 70110—

1 (A) by inserting “or reentry” after “pre-  
2 vent the launch” in subsection (a)(2); and

3 (B) by inserting “or reentry site, or re-  
4 entry of a reentry vehicle,” after “operation of  
5 a launch site” in subsection (a)(3)(B);

6 (11) in section 70111—

7 (A) by inserting “or reentry” after  
8 “launch” in subsection (a)(1)(A);

9 (B) by inserting “and reentry services”  
10 after “launch services” in subsection (a)(1)(B);

11 (C) by inserting “or reentry services” after  
12 “or launch services” in subsection (a)(2);

13 (D) by inserting “or reentry” after “com-  
14 mercial launch” both places it appears in sub-  
15 section (b)(1);

16 (E) by inserting “or reentry services” after  
17 “launch services” in subsection (b)(2)(C);

18 (F) by inserting after subsection (b)(2) the  
19 following new paragraph:

20 “(3) The Secretary shall ensure the establishment of  
21 uniform guidelines for, and consistent implementation of,  
22 this section by all Federal agencies.”;

23 (G) by striking “or its payload for launch”  
24 in subsection (d) and inserting in lieu thereof

1 “or reentry vehicle, or the payload of either, for  
2 launch or reentry”; and

3 (H) by inserting “, reentry vehicle,” after  
4 “manufacturer of the launch vehicle” in sub-  
5 section (d);

6 (12) in section 70112—

7 (A) in subsection (a)(1), by inserting  
8 “launch or reentry” after “(1) When a”;

9 (B) by inserting “or reentry” after “one  
10 launch” in subsection (a)(3);

11 (C) by inserting “or reentry services” after  
12 “launch services” in subsection (a)(4);

13 (D) in subsection (b)(1), by inserting  
14 “launch or reentry” after “(1) A”;

15 (E) by inserting “or reentry services” after  
16 “launch services” each place it appears in sub-  
17 section (b);

18 (F) by inserting “applicable” after “car-  
19 ried out under the” in paragraphs (1) and (2)  
20 of subsection (b);

21 (G) by striking “, Space, and Technology”  
22 in subsection (d)(1);

23 (H) by inserting “OR REENTRIES” after  
24 “LAUNCHES” in the heading for subsection (e);

1 (I) by inserting “or reentry site or a re-  
2 entry” after “launch site” in subsection (e);  
3 and

4 (J) in subsection (f), by inserting “launch  
5 or reentry” after “carried out under a”;

6 (13) in section 70113(a)(1) and (d)(1) and (2),  
7 by inserting “or reentry” after “one launch” each  
8 place it appears;

9 (14) in section 70115(b)(1)(D)(i)—

10 (A) by inserting “reentry site,” after  
11 “launch site,”; and

12 (B) by inserting “or reentry vehicle” after  
13 “launch vehicle” both places it appears;

14 (15) in section 70117—

15 (A) by inserting “or reentry site, or to re-  
16 enter a reentry vehicle” after “operate a launch  
17 site” in subsection (a);

18 (B) by inserting “or reentry” after “ap-  
19 proval of a space launch” in subsection (d);

20 (C) by amending subsection (f) to read as  
21 follows:

22 “(f) LAUNCH NOT AN EXPORT; REENTRY NOT AN  
23 IMPORT.—A launch vehicle, reentry vehicle, or payload  
24 that is launched or reentered is not, because of the launch  
25 or reentry, an export or import, respectively, for purposes

1 of a law controlling exports or imports, except that pay-  
 2 loads launched pursuant to foreign trade zone procedures  
 3 as provided for under the Foreign Trade Zones Act (19  
 4 U.S.C. 81a–81u) shall be considered exports with regard  
 5 to customs entry.”; and

6 (D) in subsection (g)—

7 (i) by striking “operation of a launch  
 8 vehicle or launch site,” in paragraph (1)  
 9 and inserting in lieu thereof “reentry, op-  
 10 eration of a launch vehicle or reentry vehi-  
 11 cle, operation of a launch site or reentry  
 12 site,”; and

13 (ii) by inserting “reentry,” after  
 14 “launch,” in paragraph (2); and

15 (16) by adding at the end the following new  
 16 sections:

17 **“§ 70120. Regulations**

18 “(a) IN GENERAL.—The Secretary of Transpor-  
 19 tation, within 9 months after the date of the enactment  
 20 of this section, shall issue regulations to carry out this  
 21 chapter that include—

22 “(1) guidelines for industry and State govern-  
 23 ments to obtain sufficient insurance coverage for po-  
 24 tential damages to third parties;

1           “(2) procedures for requesting and obtaining li-  
2           censes to launch a commercial launch vehicle;

3           “(3) procedures for requesting and obtaining  
4           operator licenses for launch;

5           “(4) procedures for requesting and obtaining  
6           launch site operator licenses; and

7           “(5) procedures for the application of govern-  
8           ment indemnification.

9           “(b) REENTRY.—The Secretary of Transportation,  
10          within 6 months after the date of the enactment of this  
11          section, shall issue a notice of proposed rulemaking to  
12          carry out this chapter that includes—

13           “(1) procedures for requesting and obtaining li-  
14           censes to reenter a reentry vehicle;

15           “(2) procedures for requesting and obtaining  
16           operator licenses for reentry; and

17           “(3) procedures for requesting and obtaining  
18           reentry site operator licenses.

19          **“§ 70121. Report to Congress**

20           “The Secretary of Transportation shall submit to  
21          Congress an annual report to accompany the President’s  
22          budget request that—

23           “(1) describes all activities undertaken under  
24           this chapter, including a description of the process  
25           for the application for and approval of licenses under

1       this chapter and recommendations for legislation  
2       that may further commercial launches and reentries;  
3       and

4               “(2) reviews the performance of the regulatory  
5       activities and the effectiveness of the Office of Com-  
6       mercial Space Transportation.”.

7       (b) EFFECTIVE DATE.—The amendments made by  
8       subsection (a)(6)(B) shall take effect upon the effective  
9       date of final regulations issued pursuant to section  
10      70105(b)(2)(D) of title 49, United States Code, as added  
11      by subsection (a)(6)(H).

12      **SEC. 103. LAUNCH VOUCHER DEMONSTRATION PROGRAM.**

13       Section 504 of the National Aeronautics and Space  
14      Administration Authorization Act, Fiscal Year 1993 (15  
15      U.S.C. 5803) is amended—

16              (1) in subsection (a)—

17                      (A) by striking “the Office of Commercial  
18              Programs within”; and

19                      (B) by striking “Such program shall not  
20              be effective after September 30, 1995.”;

21              (2) by striking subsection (c); and

22              (3) by redesignating subsections (d) and (e) as  
23      subsections (c) and (d), respectively.

1 **SEC. 104. PROMOTION OF UNITED STATES GLOBAL POSI-**  
2 **TIONING SYSTEM STANDARDS.**

3 (a) FINDING.—The Congress finds that the Global  
4 Positioning System, including satellites, signal equipment,  
5 ground stations, data links, and associated command and  
6 control facilities, has become an essential element in civil,  
7 scientific, and military space development because of the  
8 emergence of a United States commercial industry which  
9 provides Global Positioning System equipment and related  
10 services.

11 (b) INTERNATIONAL COOPERATION.—In order to  
12 support and sustain the Global Positioning System in a  
13 manner that will most effectively contribute to the na-  
14 tional security, public safety, scientific, and economic in-  
15 terests of the United States, the Congress encourages the  
16 President to—

17 (1) ensure the operation of the Global Position-  
18 ing System on a continuous worldwide basis free of  
19 direct user fees; and

20 (2) enter into international agreements that  
21 promote cooperation with foreign governments and  
22 international organizations to—

23 (A) establish the Global Positioning Sys-  
24 tem and its augmentations as an acceptable  
25 international standard; and



1 (B) eliminate any foreign barriers to appli-  
2 cations of the Global Positioning System world-  
3 wide.

4 **SEC. 105. ACQUISITION OF SPACE SCIENCE DATA.**

5 (a) ACQUISITION FROM COMMERCIAL PROVIDERS.—

6 In order to satisfy the scientific requirements of the Na-  
7 tional Aeronautics and Space Administration, and where  
8 practicable of other Federal agencies and scientific re-  
9 searchers, the Administrator shall to the maximum extent  
10 possible acquire, where cost effective, space science data  
11 from a commercial provider.

12 (b) TREATMENT OF SPACE SCIENCE DATA AS COM-

13 Mercial Item Under Acquisition Laws.—Acquisitions

14 of space science data by the Administrator shall be carried  
15 out in accordance with applicable acquisition laws and reg-  
16 ulations (including chapters 137 and 140 of title 10, Unit-  
17 ed States Code), except that space science data shall be  
18 considered to be a commercial item for purposes of such  
19 laws and regulations (including section 2306a of title 10,  
20 United States Code (relating to cost or pricing data), sec-  
21 tion 2320 of such title (relating to rights in technical data)  
22 and section 2321 of such title (relating to validation of  
23 proprietary data restrictions)).

24 (c) DEFINITION.—For purposes of this section, the

25 term “space science data” includes scientific data concern-

1 ing the elemental and mineralogical resources of the moon,  
2 asteroids, planets and their moons, and comets, micro-  
3 gravity acceleration, and solar storm monitoring.

4 (d) SAFETY STANDARDS.—Nothing in this section  
5 shall be construed to prohibit the Federal Government  
6 from requiring compliance with applicable safety stand-  
7 ards.

8 (e) LIMITATION.—This section does not authorize the  
9 National Aeronautics and Space Administration to provide  
10 financial assistance for the development of commercial  
11 systems for the collection of space science data.

12 **SEC. 106. ADMINISTRATION OF COMMERCIAL SPACE CEN-**  
13 **TERS.**

14 The Administrator shall administer the Commercial  
15 Space Center program in a coordinated manner from Na-  
16 tional Aeronautics and Space Administration head-  
17 quarters.

18 **TITLE II—REMOTE SENSING**

19 **SEC. 201. LAND REMOTE SENSING POLICY ACT OF 1992**  
20 **AMENDMENTS.**

21 (a) FINDINGS.—The Congress finds that—

22 (1) a robust domestic United States industry in  
23 high resolution Earth remote sensing is in the eco-  
24 nomic, employment, technological, scientific, and na-  
25 tional security interests of the United States;

1           (2) to secure its national interests the United  
2       States must nurture a commercial remote sensing  
3       industry that leads the world;

4           (3) the Federal Government must provide policy  
5       and regulations that promote a stable business envi-  
6       ronment for that industry to succeed and fulfill the  
7       national interest;

8           (4) it is the responsibility of the Federal Gov-  
9       ernment to create domestic and international condi-  
10      tions favorable to the health and growth of the Unit-  
11      ed States commercial remote sensing industry; and

12          (5) it is a fundamental goal of United States  
13      policy to support and enhance United States indus-  
14      trial competitiveness in the field of remote sensing,  
15      while at the same time protecting the national secu-  
16      rity concerns and international obligations of the  
17      United States.

18      (b) AMENDMENTS.—The Land Remote Sensing Pol-  
19      icy Act of 1992 is amended—

20          (1) in section 2 (15 U.S.C. 5601)—

21              (A) by amending paragraph (5) to read as  
22      follows:

23          “(5) Commercialization of land remote sensing  
24      is a near-term goal, and should remain a long-term  
25      goal, of United States policy.”;

1 (B) by striking paragraph (6) and redesignig-  
2 nating paragraphs (7) through (16) as para-  
3 graphs (6) through (15), respectively;

4 (C) in paragraph (11), as so redesignated  
5 by subparagraph (B) of this paragraph, by  
6 striking “determining the design” and all that  
7 follows through “international consortium” and  
8 inserting in lieu thereof “ensuring the continu-  
9 ity of Landsat quality data”; and

10 (D) by adding at the end the following new  
11 paragraph:

12 “(16) The United States should encourage re-  
13 mote sensing systems to promote access to land re-  
14 mote sensing data by scientific researchers and edu-  
15 cators.”;

16 (2) in section 101 (15 U.S.C. 5611)—

17 (A) in subsection (c)—

18 (i) by inserting “and” at the end of  
19 paragraph (6);

20 (ii) by striking paragraph (7); and

21 (iii) by redesignating paragraph (8) as  
22 paragraph (7); and

23 (B) in subsection (e)(1)—

24 (i) by inserting “and” at the end of  
25 subparagraph (A);

1 (ii) by striking “, and” at the end of  
2 subparagraph (B) and inserting in lieu  
3 thereof a period; and

4 (iii) by striking subparagraph (C);

5 (3) in section 201 (15 U.S.C. 5621)—

6 (A) by inserting “(1)” after “NATIONAL  
7 SECURITY.—” in subsection (b);

8 (B) in subsection (b)(1), as so redesign-  
9 nated by subparagraph (A) of this paragraph—

10 (i) by striking “No license shall be  
11 granted by the Secretary unless the Sec-  
12 retary determines in writing that the appli-  
13 cant will comply” and inserting in lieu  
14 thereof “The Secretary shall grant a li-  
15 cense if the Secretary determines that the  
16 activities proposed in the application are  
17 consistent”; and

18 (ii) by inserting “, and that the appli-  
19 cant has provided assurances adequate to  
20 indicate, in combination with other infor-  
21 mation available to the Secretary that is  
22 relevant to activities proposed in the appli-  
23 cation, that the applicant will comply with  
24 all terms of the license” after “concerns of  
25 the United States”;

1 (C) by adding at the end of subsection (b)  
2 the following new paragraph:

3 “(2) The Secretary, within 6 months after the date  
4 of the enactment of the Commercial Space Act of 1997,  
5 shall publish in the Federal Register a complete and spe-  
6 cific list of all information required to comprise a complete  
7 application for a license under this title. An application  
8 shall be considered complete when the applicant has pro-  
9 vided all information required by the list most recently  
10 published in the Federal Register before the date the ap-  
11 plication was first submitted. Unless the Secretary has,  
12 within 30 days after receipt of an application, notified the  
13 applicant of information necessary to complete an applica-  
14 tion, the Secretary may not deny the application on the  
15 basis of the absence of any such information.”;

16 (D) in subsection (c), by amending the sec-  
17 ond sentence thereof to read as follows: “If the  
18 Secretary has not granted the license within  
19 such 120-day period, the Secretary shall inform  
20 the applicant, within such period, of any pend-  
21 ing issues and actions required to be carried  
22 out by the applicant or the Secretary in order  
23 to result in the granting of a license.”; and

24 (E) in subsection (e)(2)(B), by striking  
25 “and the importance of promoting widespread

1 access to remote sensing data from United  
2 States and foreign systems”;

3 (4) in section 202 (15 U.S.C. 5622)—

4 (A) by striking “section 506” in subsection  
5 (b)(1) and inserting in lieu thereof “section  
6 507”;

7 (B) in subsection (b)(2), by striking “as  
8 soon as such data are available and on reason-  
9 able terms and conditions” and inserting in lieu  
10 thereof “on reasonable terms and conditions,  
11 including the provision of such data in a timely  
12 manner subject to United States national secu-  
13 rity and foreign policy interests”;

14 (C) in subsection (b)(6), by striking “any  
15 agreement” and all that follows through “na-  
16 tions or entities” and inserting in lieu thereof  
17 “any significant or substantial agreement with  
18 new foreign customers”; and

19 (D) by inserting after paragraph (6) of  
20 subsection (b) the following:

21 “The Secretary may not seek to enjoin a company from  
22 entering into a foreign agreement the Secretary receives  
23 notification of under paragraph (6) unless the Secretary  
24 has, within 30 days after receipt of such notification,  
25 transmitted to the licensee a statement that such agree-

1 ment is inconsistent with the national security or inter-  
 2 national obligations of the United States, including an ex-  
 3 planation of such inconsistency.”;

4 (5) in section 203(a)(2) (15 U.S.C.  
 5 5623(a)(2)), by striking “under this title and” and  
 6 inserting in lieu thereof “under this title and/or”;

7 (6) in section 204 (15 U.S.C. 5624), by striking  
 8 “may” and inserting in lieu thereof “shall”;

9 (7) in section 205(c) (15 U.S.C. 5625(c)), by  
 10 striking “if such remote sensing space system is li-  
 11 censed by the Secretary before commencing oper-  
 12 ation” and inserting in lieu thereof “if such private  
 13 remote sensing space system will be licensed by the  
 14 Secretary before commencing its commercial oper-  
 15 ation”;

16 (8) by adding at the end of title II the following  
 17 new section:

18 **“SEC. 206. NOTIFICATION.**

19 “(a) LIMITATIONS ON LICENSEE.—Not later than 30  
 20 days after a determination by the Secretary to require a  
 21 licensee to limit collection or distribution of data from a  
 22 system licensed under this title, the Secretary shall provide  
 23 written notification to Congress of such determination, in-  
 24 cluding the reasons therefor, the limitations imposed on



1 the licensee, and the period during which such limitations  
2 apply.

3 “(b) TERMINATION, MODIFICATION, OR SUSPEN-  
4 SION.—Not later than 30 days after an action by the Sec-  
5 retary to seek an order of injunction or other judicial de-  
6 termination pursuant to section 202(b) or section  
7 203(a)(2), the Secretary shall provide written notification  
8 to Congress of such action and the reasons therefor.”;

9 (9) in section 301 (15 U.S.C. 5631)—

10 (A) by inserting “, that are not being com-  
11 mercially developed” after “and its environ-  
12 ment” in subsection (a)(2)(B); and

13 (B) by adding at the end the following new  
14 subsection:

15 “(d) DUPLICATION OF COMMERCIAL SECTOR ACTIVI-  
16 TIES.—The Federal Government shall not undertake ac-  
17 tivities under this section which duplicate activities avail-  
18 able from the United States commercial sector, unless  
19 such activities would result in significant cost savings to  
20 the Federal Government, or are necessary for reasons of  
21 national security or international obligations.”;

22 (10) in section 302 (15 U.S.C. 5632)—

23 (A) by striking “(a) GENERAL RULE.—”;

24 (B) by striking “, including unenhanced  
25 data gathered under the technology demonstra-

1           tion program carried out pursuant to section  
2           303,” and inserting in lieu thereof “that is not  
3           otherwise available from the commercial sec-  
4           tor”; and

5           (C) by striking subsection (b);

6           (11) by repealing section 303 (15 U.S.C. 5633);

7           (12) in section 401(b)(3) (15 U.S.C.  
8           5641(b)(3)), by striking “, including any such en-  
9           hancements developed under the technology dem-  
10          onstration program under section 303,”;

11          (13) in section 501(a) (15 U.S.C. 5651(a)), by  
12          striking “section 506” and inserting in lieu thereof  
13          “section 507”;

14          (14) in section 502(c)(7) (15 U.S.C.  
15          5652(c)(7)), by striking “section 506” and inserting  
16          in lieu thereof “section 507”; and

17          (15) in section 507 (15 U.S.C. 5657)—

18               (A) by amending subsection (a) to read as  
19               follows:

20          “(a) RESPONSIBILITY OF THE SECRETARY OF DE-  
21 FENSE.—The Secretary shall consult with the Secretary  
22 of Defense on all matters under title II affecting national  
23 security. The Secretary of Defense shall be responsible for  
24 determining those conditions, consistent with this Act,  
25 necessary to meet national security concerns of the United

1 States, and for notifying the Secretary promptly of such  
2 conditions. Not later than 60 days after receiving a re-  
3 quest from the Secretary to review a completed applica-  
4 tion, the Secretary of Defense shall notify the Secretary  
5 and the licensee of, and describe in appropriate detail, any  
6 specific national security concerns of the United States  
7 that the Secretary of Defense determines are an appro-  
8 priate reason for delaying, modifying, or rejecting a license  
9 application. The Secretary of Defense shall convey to the  
10 Secretary any conditions for a license issued under title  
11 II, consistent with this Act, that the Secretary of Defense  
12 determines necessary to meet the national security con-  
13 cerns of the United States. If no such notification has  
14 been received by the Secretary within such 60-day period,  
15 the Secretary shall deem that activities proposed in the  
16 license application meet the national security concerns of  
17 the United States.”;

18 (B) by striking subsection (b)(1) and (2)  
19 and inserting in lieu thereof the following:

20 “(b) RESPONSIBILITY OF THE SECRETARY OF  
21 STATE.—(1) The Secretary shall consult with the Sec-  
22 retary of State on all matters under title II affecting inter-  
23 national obligations of the United States. The Secretary  
24 of State shall be responsible for determining those condi-  
25 tions, consistent with this Act, necessary to meet inter-

1 national obligations and policies of the United States and  
2 for notifying the Secretary promptly of such conditions.  
3 Not later than 60 days after receiving a request from the  
4 Secretary to review a completed application, the Secretary  
5 of State shall notify the Secretary and the licensee of, and  
6 describe in appropriate detail, any specific international  
7 obligations of the United States that the Secretary of  
8 State determines are an appropriate reason for delaying,  
9 modifying, or rejecting a license application. The Sec-  
10 retary of State shall convey to the Secretary any condi-  
11 tions for a license issued under title II, consistent with  
12 this Act, that the Secretary of State determines necessary  
13 to meet the international obligations of the United States.  
14 If no such notification has been received by the Secretary  
15 within such 60-day period, the Secretary shall deem that  
16 activities proposed in the license application meet the  
17 international obligations of the United States.

18 “(2) Appropriate United States Government agencies  
19 are authorized and encouraged to provide to developing  
20 nations, as a component of international aid, resources for  
21 purchasing remote sensing data, training, and analysis  
22 from commercial providers.”; and

23 (C) in subsection (d), by striking “Sec-  
24 retary may require” and inserting in lieu there-

1           of “Secretary shall, where appropriate, re-  
2           quire”.

3 **SEC. 202. ACQUISITION OF EARTH SCIENCE DATA.**

4           (a) ACQUISITION.—For purposes of meeting Govern-  
5   ment goals for Mission to Planet Earth, and in order to  
6   satisfy the scientific requirements of the National Aero-  
7   nautics and Space Administration, and where practicable  
8   of other Federal agencies and scientific researchers, the  
9   Administrator shall to the maximum extent possible ac-  
10   quire, where cost-effective, space-based and airborne  
11   Earth remote sensing data, services, distribution, and ap-  
12   plications from a commercial provider.

13          (b) TREATMENT AS COMMERCIAL ITEM UNDER AC-  
14   QUISITION LAWS.—Acquisitions by the Administrator of  
15   the data, services, distribution, and applications referred  
16   to in subsection (a) shall be carried out in accordance with  
17   applicable acquisition laws and regulations (including  
18   chapters 137 and 140 of title 10, United States Code),  
19   except that such data, services, distribution, and applica-  
20   tions shall be considered to be a commercial item for pur-  
21   poses of such laws and regulations (including section  
22   2306a of title 10, United States Code (relating to cost  
23   or pricing data), section 2320 of such title (relating to  
24   rights in technical data) and section 2321 of such title  
25   (relating to validation of proprietary data restrictions)).

1       (c) STUDY.—(1) The Administrator shall conduct a  
2 study to determine the extent to which the baseline sci-  
3 entific requirements of Mission to Planet Earth can be  
4 met by commercial providers, and how the National Aero-  
5 nautics and Space Administration will meet such require-  
6 ments which cannot be met by commercial providers.

7       (2) The study conducted under this subsection  
8 shall—

9           (A) make recommendations to promote the  
10 availability of information from the National Aero-  
11 nautics and Space Administration to commercial  
12 providers to enable commercial providers to better  
13 meet the baseline scientific requirements of Mission  
14 to Planet Earth;

15          (B) make recommendations to promote the dis-  
16 semination to commercial providers of information  
17 on advanced technology research and development  
18 performed by or for the National Aeronautics and  
19 Space Administration; and

20          (C) identify policy, regulatory, and legislative  
21 barriers to the implementation of the recommenda-  
22 tions made under this subsection.

23       (3) The results of the study conducted under this  
24 subsection shall be transmitted to the Congress within 6  
25 months after the date of the enactment of this Act.

1 (d) SAFETY STANDARDS.—Nothing in this section  
2 shall be construed to prohibit the Federal Government  
3 from requiring compliance with applicable safety stand-  
4 ards.

5 (e) ADMINISTRATION AND EXECUTION.—This section  
6 shall be carried out as part of the Commercial Remote  
7 Sensing Program at the Stennis Space Center.

8 **TITLE III—FEDERAL ACQUISI-**  
9 **TION OF SPACE TRANSPOR-**  
10 **TATION SERVICES**

11 **SEC. 301. REQUIREMENT TO PROCURE COMMERCIAL**  
12 **SPACE TRANSPORTATION SERVICES.**

13 (a) IN GENERAL.—Except as otherwise provided in  
14 this section, the Federal Government shall acquire space  
15 transportation services from United States commercial  
16 providers whenever such services are required in the  
17 course of its activities. To the maximum extent prac-  
18 ticable, the Federal Government shall plan missions to ac-  
19 commodate the space transportation services capabilities  
20 of United States commercial providers.

21 (b) EXCEPTIONS.—The Federal Government shall  
22 not be required to acquire space transportation services  
23 under subsection (a) if, on a case-by-case basis, the Ad-  
24 ministrator or, in the case of a national security issue,  
25 the Secretary of the Air Force, determines that—

1           (1) a payload requires the unique capabilities of  
2           the space shuttle;

3           (2) cost effective space transportation services  
4           that meet specific mission requirements would not be  
5           reasonably available from United States commercial  
6           providers when required;

7           (3) the use of space transportation services  
8           from United States commercial providers poses an  
9           unacceptable risk of loss of a unique scientific oppor-  
10          tunity;

11          (4) the use of space transportation services  
12          from United States commercial providers is incon-  
13          sistent with national security objectives;

14          (5) the use of space transportation services  
15          from United States commercial providers is incon-  
16          sistent with foreign policy purposes, or launch of the  
17          payload by a foreign entity serves foreign policy pur-  
18          poses, and a specific exception to the requirements  
19          of subsection (a) has been provided by a law, en-  
20          acted after the date of the enactment of this Act,  
21          that contains no matter other than that exception;

22          (6) it is more cost effective to transport a pay-  
23          load in conjunction with a test or demonstration of  
24          a space transportation vehicle owned by the Federal  
25          Government; or



1           (7) a payload can make use of the available  
2       cargo space on a Space Shuttle mission as a second-  
3       ary payload, and such payload is consistent with the  
4       requirements of research, development, demonstra-  
5       tion, scientific, commercial, and educational pro-  
6       grams authorized by the Administrator.

7       The Administrator, in consultation with the Secretary of  
8       State and the Secretary of Transportation, may propose  
9       to the Congress that a specific exception described in para-  
10      graph (5) be enacted for a launch or class of launches.  
11      Any such proposal shall include a description of the for-  
12      eign policy purposes that would be served by such an ex-  
13      ception, and shall identify the impacts of such an excep-  
14      tion on the commercial launch industry. Nothing in this  
15      subsection shall prevent the Administrator from planning  
16      or negotiating agreements with foreign entities for the  
17      launch of Federal Government payloads for foreign policy  
18      purposes, contingent on enactment of a specific exception  
19      described in paragraph (5).

20      (c) DELAYED EFFECT.—Subsection (a) shall not  
21      apply to space transportation services and space transpor-  
22      tation vehicles acquired or owned by the Federal Govern-  
23      ment before the date of the enactment of this Act, or with  
24      respect to which a contract for such acquisition or owner-  
25      ship has been entered into before such date.

1 (d) HISTORICAL PURPOSES.—This section shall not  
2 be construed to prohibit the Federal Government from ac-  
3 quiring, owning, or maintaining space transportation vehi-  
4 cles solely for historical display purposes.

5 **SEC. 302. ACQUISITION OF COMMERCIAL SPACE TRANS-**  
6 **PORTATION SERVICES.**

7 (a) TREATMENT OF COMMERCIAL SPACE TRANSPOR-  
8 TATION SERVICES AS COMMERCIAL ITEM UNDER ACQUI-  
9 SITION LAWS.—Acquisitions of space transportation serv-  
10 ices by the Federal Government shall be carried out in  
11 accordance with applicable acquisition laws and regula-  
12 tions (including chapters 137 and 140 of title 10, United  
13 States Code), except that space transportation services  
14 shall be considered to be a commercial item for purposes  
15 of such laws and regulations (including section 2306a of  
16 title 10, United States Code (relating to cost or pricing  
17 data), section 2320 of such title (relating to rights in tech-  
18 nical data) and section 2321 of such title (relating to vali-  
19 dation of proprietary data restrictions)).

20 (b) SAFETY STANDARDS.—Nothing in this section  
21 shall be construed to prohibit the Federal Government  
22 from requiring compliance with applicable safety stand-  
23 ards.

1 **SEC. 303. LAUNCH SERVICES PURCHASE ACT OF 1990**  
2 **AMENDMENTS.**

3 The Launch Services Purchase Act of 1990 (42  
4 U.S.C. 2465b et seq.) is amended—

5 (1) by striking section 202;

6 (2) in section 203—

7 (A) by striking paragraphs (1) and (2);

8 and

9 (B) by redesignating paragraphs (3) and  
10 (4) as paragraphs (1) and (2), respectively;

11 (3) by striking sections 204 and 205; and

12 (4) in section 206—

13 (A) by striking “(a) COMMERCIAL PAY-  
14 LOADS ON THE SPACE SHUTTLE.—”; and

15 (B) by striking subsection (b).

16 **SEC. 304. SHUTTLE PRIVATIZATION.**

17 (a) **POLICY AND PREPARATION.**—The Administrator  
18 shall prepare for an orderly transition from the Federal  
19 operation, or Federal management of contracted oper-  
20 ation, of space transportation systems to the Federal pur-  
21 chase of commercial space transportation services for all  
22 nonemergency launch requirements, including human,  
23 cargo, and mixed payloads. In those preparations, the Ad-  
24 ministrator shall take into account the need for short-term  
25 economies, as well as the goal of restoring the National  
26 Aeronautics and Space Administration’s research focus

1 and its mandate to promote the fullest possible commercial  
2 use of space. As part of those preparations, the Adminis-  
3 trator shall plan for the potential privatization of the  
4 Space Shuttle program. Such plan shall keep safety and  
5 cost effectiveness as high priorities. Nothing in this section  
6 shall prohibit the National Aeronautics and Space Admin-  
7 istration from studying, designing, developing, or funding  
8 upgrades or modifications essential to the safe and eco-  
9 nomical operation of the Space Shuttle fleet.

10 (b) FEASIBILITY STUDY.—The Administrator shall  
11 conduct a study of the feasibility of implementing the rec-  
12 ommendation of the Independent Shuttle Management Re-  
13 view Team that the National Aeronautics and Space Ad-  
14 ministration transition toward the privatization of the  
15 Space Shuttle. The study shall identify, discuss, and,  
16 where possible, present options for resolving, the major  
17 policy and legal issues that must be addressed before the  
18 Space Shuttle is privatized, including—

19 (1) whether the Federal Government or the  
20 Space Shuttle contractor should own the Space  
21 Shuttle orbiters and ground facilities;

22 (2) whether the Federal Government should in-  
23 demnify the contractor for any third party liability  
24 arising from Space Shuttle operations, and, if so,  
25 under what terms and conditions;

1           (3) whether payloads other than National Aero-  
2       nautics and Space Administration payloads should  
3       be allowed to be launched on the Space Shuttle, how  
4       missions will be prioritized, and who will decide  
5       which mission flies and when;

6           (4) whether commercial payloads should be al-  
7       lowed to be launched on the Space Shuttle and  
8       whether any classes of payloads should be made in-  
9       eligible for launch consideration;

10          (5) whether National Aeronautics and Space  
11       Administration and other Federal Government pay-  
12       loads should have priority over non-Federal payloads  
13       in the Space Shuttle launch assignments, and what  
14       policies should be developed to prioritize among pay-  
15       loads generally;

16          (6) whether the public interest requires that  
17       certain Space Shuttle functions continue to be per-  
18       formed by the Federal Government; and

19          (7) how much cost savings, if any, will be gen-  
20       erated by privatization of the Space Shuttle.

21       (c) REPORT TO CONGRESS.—Within 60 days after  
22       the date of the enactment of this Act, the National Aero-  
23       nautics and Space Administration shall complete the study  
24       required under subsection (b) and shall submit a report  
25       on the study to the Committee on Commerce, Science, and

- 1 Transportation of the Senate and the Committee on
- 2 Science of the House of Representatives.

Passed the House of Representatives November 4,  
1997.

Attest:

ROBIN H. CARLE,  
*Clerk.*